



SIMATIC DP,
ELECTRON. MODULE F. ET200S,
4 F-DO PROFISAFE, DC 24V/2A,
30 MM WIDTH UP TO PL E (ISO13849),
UP TO SIL 3 (IEC 61508),
ALSO USEABLE IN PROFINET- NETWORKS WITH IM151-
3 HF

Supply voltage

Load voltage L+

Rated value (DC)	24 V
Reverse polarity protection	No

Input current

from load voltage L+ (without load), max.	typ. 100 mA
from backplane bus 3.3 V DC, max.	28 mA

Digital outputs

Number of digital outputs	4
Short-circuit protection	Yes
Limitation of inductive shutdown voltage to	Typ. (2L+) -47 V
Controlling a digital input	No

Switching capacity of the outputs

Lamp load, max.	10 W
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Load resistance range

lower limit	12 Ω
upper limit	1 kΩ

Output voltage

for signal "1", min.	L+ (-2,0 V), current sourcing switch: L+ (-1,5 V), voltage drop on current sinking switch: max. 0.5 V
Output current	
for signal "1" rated value	2 A
for signal "1" permissible range for 0 to 60 °C, min.	20 mA
for signal "1" permissible range for 0 to 60 °C, max.	2.4 A
for signal "0" residual current, max.	0.5 mA ; Current sink and source
Parallel switching of 2 outputs	
for increased power	No
for redundant control of a load	No
Switching frequency	
with resistive load, max.	30 Hz ; Symmetrical
with inductive load, max.	0.1 Hz ; Symmetrical
on lamp load, max.	10 Hz ; Symmetrical
Aggregate current of outputs (per group)	
horizontal installation	
up to 40 °C, max.	6 A
up to 55 °C, max.	5 A
up to 60 °C, max.	4 A
vertical installation	
up to 40 °C, max.	4 A
Cable length	
Cable length, shielded, max.	500 m
Cable length unshielded, max.	500 m
Interrupts/diagnostics/status information	
Diagnostic messages	
Diagnostic functions	Yes
Wire break	Yes
Short circuit	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Status indicator digital output (green)	Yes
Galvanic isolation	
Galvanic isolation digital outputs	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	No
Isolation	

tested with	
Load voltage L+ against backplane bus	2545 V DC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
acc. to IEC 61508	SIL 3
Dimensions	
Width	30 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	85 g
Status	Jun 16, 2014

